

CCR Fourth Annual Fellows and Young Investigators Retreat
March 9 ~ 11, 2004, Marriot in Williamsburg, VA

PROGRAM

Tuesday, March 9, 2004

- 3:00 p.m. **Registration** (*Promenade*)
- 5:00 p.m. **Opening Remarks and CCR Overview** (*Harrison-Taylor Ballroom*)
 Cem Elbi, M.D., Ph.D. and Melissa Maderia, Ph.D.
- 5:15 p.m. **Dinner**
- 6:30 p.m. **Plenary Session I** (*Auditorium*)
 Moderators: Melinda Merchant, M.D., Ph.D. and Ramalakshmi Darba, Ph.D.
- Keynote Speaker: Platinum Anticancer Drug Research in the Hands of a Chemist**
 Stephen J. Lippard, Ph.D., Massachusetts Institute of Technology
- 7:30 p.m. **Break**
- 8:00 p.m. **Concurrent Workshops**
- Career Workshops: Industry, Science, and Academia** (*Auditorium*)
 Moderators: Melissa Wilson, Ph.D. and Jill Paterson, Ph.D.
- Industry:**
 Matthew Lorenzi, Ph.D., Bristol-Meyers Squibb, Inc.
 Stephen A. Scaringe, Ph.D., Dharmacon, Inc.
- Academia:**
 Lizabeth A. Allison, Ph.D., College of William and Mary
- Science:**
 Grace Yeh, Ph.D., National Cancer Institute
- Negotiating Skills for the Job Seeker Workshop** (*Amphitheater*)
 Moderators: Kathleen Dohoney, Ph.D. and Anne Welcker, Ph.D.
 Julie White, Ph.D., Julie White and Associates
- 9:00 p.m. **Informal Mixer** (*Promenade*); **Poster Session I Setup** (*Adams Ballroom*)
 Sign-up for Wednesday Mentored Lunch (*Registration Desk*)

Wednesday, March 10, 2004

- 7:00 a.m. **Continental Breakfast** (*Conference Center Foyer*)
- 8:00 a.m. **Plenary Session II** (*Auditorium*)
 Moderators: Valance Washington, Ph.D. and Swati Choksi, Ph.D.
- Keynote Speaker: Mechanisms Governing the Formation of Human Cancers**
 Robert A. Weinberg, Ph.D., Whitehead Institute of Biomedical Research, MIT
- 9:00 a.m. **Break**
- 9:30 a.m. **Poster Session I** (*Adams Ballroom*)

**Pharmacology and Chemistry
Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention I
Immunology and Genetics
Molecular and Cell Biology I**

11:30 a.m.

Mentored and General Lunch (*Harrison-Taylor Ballroom*)

Sign-up required for mentored table

1:00 p.m.

Concurrent Oral Presentations I

Pharmacology and Chemistry (*Room 2-3*)

Moderators: Ramalakshmi Darba, Ph.D. and Melissa Maderia, Ph.D.

V. Ashutosh Rao, *Laboratory of Molecular Pharmacology*

Functional Status of the Bloom's Syndrome Protein (BLM) Alters Topoisomerase I-DNA Cleavage Complex Formation and Repair Response to Camptothecin

Krishnamachary Nandigama, *Laboratory of Molecular Pharmacology*

Large-Scale Purification of Human P-Glycoprotein (ABCB1)

Smitha Antony, *Laboratory of Molecular Pharmacology*

Differential Trapping of Topoisomerase I by the Indenoisoquinoline MJ-III-65 and Camptothecin: Activity Against Camptothecin-Resistant Topoisomerases I

Douglas D. Thomas, *Radiation Biology Branch*

HIF-1 α and p53 Are Regulated by Distinct Threshold Nitric Oxide Concentrations in Human Breast MCF7 Cells

Dehui Duan, *Laboratory of Medicinal Chemistry*

Combinatorial Synthesis, Quality Control, and Biological Evaluation of Diacylglycerol (DAG)-Lactone Libraries – Protein Kinase C (PKC) Isozyme-Specific Ligands

Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention I

(*Amphitheater*)

Moderators: Kwang Suh, Ph.D. and Margaret Pratt, Ph.D.

Arti C. Patel, *Laboratory of Tumor Immunology and Biology*

Effect of Dietary Modifications on the Immune Response in Tumor Bearing and Wild-Type Mice

Brenda J. Boersma, *Laboratory of Human Carcinogenesis*

Breast Cancer Risk Associated with Allele Variant Genes in the Estrogen Pathway

Lamia Benbrahim-Tallaa, *Laboratory of Comparative Carcinogenesis, NCI at NIEHS*

Androgen Metabolism and Estrogen Receptor Expression in Human Epithelial Prostatic Cells After Chronic Arsenic Exposure

Arindam Dhar, *Laboratory of Cancer Prevention*

Low-Dose Nitric Oxide (NO) Prevents Transformation and Reverts Transformation-Sensitive Phenotype

Jyotsna Pandey, *Cell and Cancer Biology Branch*

Modulation of Tumorigenesis by C/EBP- β and C/EBP- γ in a TGF- β 1 and K-ras Mutated Mouse Model of Lung Cancer

Immunobiology and Genetics (*Room A-B*)

Moderators: Valance Washington, Ph.D. and Katheen Dohoney, Ph.D.

Maria Cecilia Rodriguez-Galan, *Laboratory of Experimental Immunology*
Immunomodulatory Changes in Lymphocyte Subsets in Primary and Secondary
Lymphoid Organs After Hydrodynamic Injection of IL-12 and IL-18 cDNAs

Gareth E. Davies, *Laboratory of Experimental Immunology*
Variegated Gene Expression: Identification of a Programmable Binary Switch

Lawrence A. Wolfrain, *Laboratory of Cell Regulation and Carcinogenesis*
Disparate Effects of p27^{Kip1} Deletion on Proliferation of Naïve CD4⁺ vs CD8⁺ T Cells Is
Due to an Altered Threshold for CD28-Mediated Co-Stimulation in CD8⁺ T Cells

Jesus M. Salvador, *Basic Research Laboratory*
The p53-Effector Gene Gadd45a Inhibits the T-Cell p38 Activation Pathway

Kahori Kurosaka, *Laboratory of Molecular Immunoregulation*
Mouse Cathelin-Related Antimicrobial Peptide (CRAMP) Uses FPRL1/mFPR2 as the
Receptor to Chemoattract Leukocytes

Molecular and Cellular Biology I (Auditorium)

Moderators: Susan Lindtner, Ph.D. and Sarah Kolla, M.D., Ph.D.

Thomas Sebastian, *Laboratory of Protein Dynamics and Signaling*
C/EBP β Mediates Oncogenic Ras-Induced Proliferation Arrest in Primary Fibroblasts

Michael S. Patrick, *Laboratory of Cell Oncology*
A Novel Therapy for Cervical Cancer Using Sliceosome-Mediated RNA Trans-Splicing
(SmaRTTM)

Hyung-Chan Suh, *Basic Research Program, SAIC*
C/EBP α Inhibits Erythroid Development and Differentiation by Decreasing EpoR
Expression

Thangaraju Muthusamy, *Laboratory of Protein Dynamics and Signaling*
The Transcription Factor Cebpd Induces Mammary Epithelial and Breast Tumor Cell
Death

Hatem E. Sabaawy, *Experimental Transplantation and Immunology Branch*
Characterization of Canine Mesenchymal Stem Cells with Multilineage Potential

2:45 p.m.

Plenary Session III (Auditorium)

Moderators: Swati Choksi, Ph.D. and Anne Welcker, Ph.D.

Keynote Speaker: RNAi-Mediated Epigenetic Control of the Genome

Shiv Grewal, Ph.D., National Cancer Institute

3:45 p.m.

Break

4:00 p.m.

Concurrent Workshops

Time Mastery (Management Skills) Workshop (Amphitheater)

Moderators: Susan Lindtner, Ph.D. and Chandravanu Dash, Ph.D.

Corey Edwards, CRW, CCMC, CECC, Partnering for Success

Being a Professor: What You Thought You Knew! (Auditorium)

*Moderators: Robert Dean, M.D. and Melinda Merchant, M.D., Ph.D.
Marcelo G. Kazanietz, Ph.D., University of Pennsylvania School of Medicine*

- 5:15 p.m. **Dinner** (*Harrison-Taylor Ballroom*)
Sign-up for Thursday Mentored Lunch (*Registration Desk*)
Poster Session II Set-Up (*Adams Ballroom*)
- 6:45 p.m. **Plenary Session IV** (*Auditorium*)
Moderators: Melissa Maderia, Ph.D. and Humcha Hariprakasha, Ph.D.
- Office of the Director Address to CCR and Open Questions**
J. Carl Barrett, Ph.D., Director, Center for Cancer Research, NCI
- 7:30 p.m. **Poster Session II** (*Adams Ballroom*)
Molecular and Cell Biology II
Genomics, Proteomics, and Bioinformatics
Clinical and Translational Research
Signal Transduction and Gene Transcription
Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention II

Thursday, March 11, 2004

- 7:00 a.m. **Continental Breakfast** (*Conference Center Foyer*)
- 8:00 a.m. **Concurrent Workshops**
- Grant Writing Workshop** (*Auditorium*)
Moderators: Chava Kimchi-Sarfaty, Ph.D. and Nadia Khan, M.B.B.S.
Florence Farber, Ph.D., National Cancer Institute
Colette Freeman, Ph.D., National Cancer Institute
- Team Science Workshop** (*Amphitheater*)
Moderators: Valance Washington, Ph.D. and Edwin Posadas, M.D.
Howard Gadlin, Ph.D., National Institutes of Health
L. Michelle Bennett, Ph.D., National Cancer Institute
- 9:15 a.m. **Plenary Session V** (*Auditorium*)
Moderators: Cem Elbi, M.D., Ph.D. and Kathleen Dohoney, Ph.D.
- Keynote Speaker**
J. Carl Barrett, Ph.D., Director, Center for Cancer Research, NCI
- 10:30 a.m. **Break**
- 10:45 a.m. **Concurrent Oral Presentations II**
- Molecular and Cellular Biology II** (*Auditorium*)
Moderators: Chandravanu Dash, Ph.D. and Susan Lindtner, Ph.D.
- John N. Bradsher, Laboratory of Human Carcinogenesis*
The Transcription-Coupled Repair Protein CSB IS Recruited to the Human p53 Gene *In Vivo*
- Rebecca Dumont, Laboratory of Cellular Carcinogenesis and Tumor Promotion*

mtCLIC/CLIC4, a p53-Regulated Chloride Channel Protein, Induces Apoptosis in an Organelle-Specific Manner

Tao Fan, *Laboratory of Molecular Immunoregulation*
Role of Lsh in the Regulation of Gene Imprinting

Lixin Sun, *Neuro-Oncology Branch*
A Novel Injury-Induced Gene Was Identified in the Brain by Suppression Subtractive Hybridization Analysis

Irina Tretyakova, *Basic Research Laboratory*
NXF Export Receptors Interact with Neuron-Specific Microtubule-Associated Proteins

Genomics, Proteomics, and Bioinformatics and Clinical and Translational Research Combined (Room 2-3)

Moderators: Nadia Khan, M.B.B.S. and Anne Welcker, Ph.D.

Sheelu Varghese, *Laboratory of Cellular Carcinogenesis and Tumor Promotion*
Glial Cell-Derived Neurotrophic Factor (GDNF) Mediates Vascular Remodeling in Aged Mice

Mong-Hsun Tsai, *Radiation Biology Branch*
Gene Expression Profiles Following Radiation in Different p53 Status Human Lymphoblast Cell Lines Revealed p53R2 Protein Plays a Role in Radiation-Induced Mutagenesis

Gallya Gannot, *Laboratory of Pathology*
Quantitative Proteomic Analysis of Whole Mount Prostate Tissue Sections

Melinda Merchant, *Pediatric Oncology Branch*
Anti-Tumor and Anti-Metastatic Effects of Interferon and TRAIL in a Xenograft Model of Ewing's Sarcoma

Robert Dean, *Experimental Transplantation and Immunology Branch*
Response to Salvage Chemotherapy Influences Outcome of Reduced-Intensity Allogeneic Stem Cell Transplantation (RIST) for Non-Hodgkin's Lymphoma (NHL) but Does Not Preclude Durable Survival

Signal Transduction and Gene Transcription (Room A-B)

Moderators: Cem Elbi, M.D., Ph.D. and Anne Welcker, Ph.D.

Mi Jung Lim, *Cell and Cancer Biology Branch*
Transforming Growth Factor- β 1 Induces Apoptosis in Lung Alveolar Type II Epithelial Cells by a Smad-Dependent Signaling Mechanism

Yong-Sik Bong, *Laboratory of Protein Dynamics and Signaling*
Tyrosine Residue 298 in EphrinB1 is Critical for an Interaction with Grb4 Adaptor Protein

Jennifer Wessells, *Laboratory of Protein Dynamics and Signaling*
C/EBP β Is Essential for Survival of Myeloid Tumor Cells

Irene Collins, *Laboratory of Receptor Biology and Gene Expression*
Profiling the Molecular Dynamics of Transcriptional Targeting in Activated T Cells

Hyun-Shik Lee, *Laboratory of Protein Dynamics and Signaling*

Dishevelled Is Essential for EphrinB1 Signaling During Eye Field Formation

Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention II

(Amphitheater)

Moderators: Margaret Pratt, Ph.D. and Kwang Suh, Ph.D.

Jingbo Pi, *Laboratory of Comparative Carcinogenesis*

Arsenic-Induced Transformation Causes Generalized Resistance to Apoptosis in Cultured Human Keratinocytes

Jui Pandhare, *Laboratory of Comparative Carcinogenesis*

Up-Regulation of Proline Oxidase Transcriptional Activity by Peroxisome Proliferator-Activated Receptor-Gamma (PPAR- γ)

Wei Liao, *Dermatology Branch*

Kaposi's Sarcoma-Associated Herpesvirus (KSHV) Infection of Human Dermal Microvascular Endothelial Cells (HDMEC) Causes Increased Cellular Proliferation, Decreased Cellular Adhesion, and Marked Up-Regulation of Angiogenic Growth Factors

Lambratu Rahman, *Basic Research Laboratory*

Thymidylate Synthase as an Oncogene: A Novel Role for an Essential DNA Synthesis Enzyme

Vijayachandra Kinnimulki, *Laboratory of Cellular Carcinogenesis and Tumore Promotion*

Phenotypic Determinants of Susceptibility to Carcinogenesis in Mouse Skin Cancer Model

12:30 p.m.

Mentored and General Lunch (*Harrison-Taylor Ballroom*)

Sign-up required for mentored table

2:00 p.m.

Plenary Session VI (*Auditorium*)

Moderators: Cem Elbi, M.D., Ph.D. and Robert Dean, Ph.D.

Keynote Speaker: The Clarion Call of the Mad Cow

Stanley B. Prusiner, M.D., *University of California, San Francisco*

1997 Nobel Laureate in Medicine

3:00 p.m.

NPA and the CCR-FYI Open Forum

Moderators: Arti Patel, Ph.D., M.P.H. and Humcha Hariprakash, Ph.D.

Alyson Reed, M.A., *National Postdoctoral Association*

4:15 p.m.

Awards and Closing

2004 CCR Fellows and Young Investigators Retreat

Travel Award Winners

Congratulations!

Eight \$1,000 Travel Awards

Sponsored by the CCR Office of the Director

Outstanding Oral Presentations

Smitha Antony

Gareth Davies
Jingbo Pi
Hatem Sabaawy

Outstanding Poster Presentations

John Crutchley
Cynthia Leifer
Elaine Leslie
Christina Stuelten